PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
031392PC						
International application No.	International filing date (day/month/year,	(Earliest) Priority Date (day/month/year)				
PCT/AU2004/001800	21 December 2004	23 December 2003				
Applicant .						
PROGEN INDUSTRIES LIM	ITED et al					
		• .				

This international search report has been pre Article 18. A copy is being transmitted to the	pared by this International Searching Authore International Bureau.	ority and is transmitted to the applicant according to				
This international search report consists of a	total of 7 sheets.					
It is also accompanied by a cor	by of each prior art document cited in this re	eport.				
Basis of the report						
With regard to the language, the inte it was filed, unless otherwise indicate	rnational search was carried out on the basi ed under this item.	s of the international application in the language in which				
The international sear Authority (Rule 23.1)	ch was carried out on the basis of a translat b)).	ion of the international application furnished to this				
b. With regard to any nucleotide	and/or amino acid sequence disclosed in t	he international application, see Box No. I.				
2. Certain claims were found un	searchable (See Box No. II).					
3. Unity of invention is lacking (See Box No. III).	•				
4. With regard to the title,		·				
X the text is approved as submitte	ed by the applicant.					
the text has been established by	this Authority to read as follows:					
•	·					
5. With regard to the abstract,	•					
X the text is approved as submitted	ed by the applicant.					
the text has been established, acone month from the date of main	ecording to Rule 38.2(b), by this Authority ling of this international search report, sub-	as it appears in Box No. IV. The applicant may, within mit comments to this Authority.				
6. With regard to the drawings,						
a. the figure of the drawings to be publ	ished with the abstract is Figure No.					
as suggested by the ap	plicant.					
as selected by this Au	thority, because the applicant failed to sugg	est a figure.				
as selected by this Au	thority, because this figure better characterist	zes the invention.				
b. X none of the figures is to be publ	ished with the abstract.					

International application No.

PCT/AU2004/001800

This international search report has not been established in respect of certain claims under Article 17(2)(s) for the following reasons: Claims Nos.: C	Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
because they relate to subject matter not required to be searched by this Authority, namely: 2.		ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following					
2. X Claims Nos.: 1, 3 (in part) because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: See supplemental box 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a) Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	1.	Claims Nos.:					
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International application No. PCT/AU2004/001800

A.	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. 7:	C07H 5/10, 13/12, 15/04, 11/04, 15/18; A61K 31/70, 31/7012, 31/7016, 31/7028; A61P 7/00, 7/02, 29/00, 35/00, 31/00, 43/00					
According to	International Patent Classification (IPC) or to both national classification and IPC					
B.	FIELDS SEARCHED					
Minimum docu	mentation searched (classification system followed by classification symbols)					
	searched other than minimum documentation to the extent that such documents are included in the fields search	ned				
	base consulted during the international search (name of data base and, where practicable, search terms used) WPIDS: Substructure Search	*				
C.	DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
х	WO 1985/000973 A1 (AMERICAN CYNAMID COMPANY) 14 March 1985 See whole document especially formulae I and II, claims	1, 3, 4-10, 12, 13				
x	US 4459293 (MINER THOMAS G et al) 10 July 1984 See whole document	1, 3, 4-10, 12, 13				
x	WO 2003/038054 A2 (NEW YORK UNIVERSITY) 8 May 2003 See structures I–VI	1				
·x	Derwent Abstract Accession No 2000-100762/09 Class B03 D16 JP 11-315092 (AGENCY OF IND SCI & TECH) 16 November 1999	1, 3, 4				
X F	Further documents are listed in the continuation of Box C X See patent family annual X	ex				

	Special categories of cited documents:					
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E"	earlier application or patent but published on or after the international filing date	."X"	or cannot be considered to involve an inventive step when the document is taken alone			
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means	"Y."	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family			
"P"	document published prior to the international filing date but later than the priority date claimed					
Date o	of the actual completion of the international search		Date of mailing of the international search report			
7 Ma	rch 2005		1 1 MAR 2005			
Name	Name and mailing address of the ISA/AU		Authorized officer			
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International application No.
PCT/AU2004/001800

C (Continuation	on). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant, passages	Relevant to claim No.
Х	Derwent Abstract Accession No 2001-337999/36 Class B03 JP 2001048857 (ONO PHARM CO LTD) 20 February 2001	1, 4-10, 14
x	Derwent Abstract Accession No 2000-116716/10 Class B03 WO 1999/065480 (ONO PHARM CO LTD) 23 December 1999 (US 2004/0072767 viewed)	1, 3, 4
x	WO 1993/024506 A1 (ALBERTA RESEARCH COUNCIL) 9 December 1993 See whole document	1, 4-10, 12
x	WO 1997/018222 A2 (GLYCOMED INC) 22 May 1997 See whole document	1, 3, 4-10, 12
x .	Derwent Abstract Accession No 96-116981/12 Class B03 WO 1996/003413 (GENYME UK LTD) 8 February 1996	. 1,3
х	US 5700918 (HASEGAWA et al) 23 December 1997 See whole document	1, 4-10, 12, 14
P, X	Chemical Abstracts AN 140:314439 & Bytheway, Ian et al, "Validation of Molecular Docking Calculations Involving FGF-1 and FGF-2" Journal of Medicinal Chemistry (2004), 47(7), 1683-1693 See RN 679418-23-6, 679418-24-7	1, 3
P, X	Chemical Abstracts AN 141:54554 & Liu, Ligong et al, "Application of the four-component Ugi condensation for the preparation of sulfated glycoconjugate libraries" Bioorganic & Medicinal Chemistry Letters (2004), 14(9), 2221-2226 See RN 705951-30-0, 705951-31-1, 705951-32-2, 705951-33-3, 705951-34-4, 705951-35-5, 705951-36-6, 705951-37-7, 705951-38-8, 705951-39-9, 705951-40-2, 705951-41-3	1, 3
x	Chemical Abstracts AN 138:82903 & Yoshiizumi, Kazuya et al, "Studies on scavenger receptor inhibitors. Part 1: synthesis and structure-activity relationships of novel derivatives of sulfatides" Bioorganic & Medicinal Chemistry (2002), 10(8), 2445-2460 See RN 485323-47-5	1, 3, 4
x	Chemical Abstracts AN 133:267051 & Faroux-Corlay, B. et al, "Synthesis of single- and double-chain fluorocarbon and hydrocarbon galactosyl amphiphiles and their anti-HIV-1 activity" Carbohydrate Research (2000), 327(3), 223-260 See RN 298712-98-8	1, 3, 4
х	Chemical Abstracts AN 131:322848 & Sakagami, Masahiro et al, "Syntheses and evaluation of biantennary oligosaccharide ligands mimicking Sialyl Lewis X" Chemical & Pharmaceutical Bulletin (1999), 47(9), 1237-1245 See RN 167016-70-8	1, 4-10, 12

International application No.
PCT/AU2004/001800

Category*	Citation of document, with indication, where appropriate, of the relevant passages					
Х	Chemical Abstracts AN 129:107414 & Mulligan, Michael S. et al, "In vitro and in vivo selectin-blocking activities of sulfated lipids and sulfated sialyl compounds" International Immunology (1998), 10(5), 569-575 See RN 209860-41-3					
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International application No.

PCT/AU2004/001800

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Supplemental Box	Sun	nlen	nenta	al Box
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

The permutations and combinations of the various variables of the structural formula I of claim 1 give many classes of compounds that the specification does not provide support for. The claim is also drafted so unclearly that the scope of the claim cannot be determined. Attempts have been made to conduct a search of the compounds covered by claim 3. It was economically not possible to retrieve all related documents due to the large number of closely related compounds from the substructure searches. Only a selection of the prior art has been cited in Box C.

Information on patent family members

International application No.

PCT/AU2004/001800

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	ent Family Member		
wo	1985/000973	EP	0153393	US	4515782	•	
US	4459293	US	4404365				
wo	2003/038054					*	
JР	99315092					 .	
JР	2001048857			•			
wo	1999/065480	AU	41665/99	EP	1095653	US	2004/0072767
wo	1993/024506	CA	2110386	CA	2110495	CA	2110582
1		CA	2110707	ĊA	2110997	CA	2118405
		CA	2118522	EP	0588848	EP	0588852
		EP	0589933	EP	0589951	EP	0591254
		EP	0591256	EP	0643718	EP	0650492
		US	5352670	US	5374655	US	5550155
	•	US .	5580858	US	5646123	US	5759993
		US	5872096	US	5882901	US	5939290
		wo	1992/022301	wo	1992/022563	wo	1992/022564
٠.		wo '	1992/022565	wo	1992/022661	wo	1992/022662
7		wo	1993/024505				
wo	1997/018222	AU	11228/97	US	5874411		
,wo	1996/003413	AU	32236/95	CA	2194492	EP	0772618
<i>-</i>		US	5874548				
US	5700918	wo	1995/026970				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

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